

CLAIMS:

1. A method for increasing the security of transponder systems employing wireless transmission between at least one base station and at least one small device that a person can carry with him or her, a communication that establishes that the small device is spatially close taking place between the basis station and the small device, characterized in
5 that signaling perceptible to human beings takes place as part of the communication process between the base station and the small device.
2. A method as claimed in claim 1, characterized in that the perceptible signaling is emitted from the base station.
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3. A method as claimed in claim 2, characterized in that the small device receives and analyzes at least part of the signaling.
4. A method as claimed in claim 3, characterized in that the small device
15 concludes the communication in a secure manner if the signaling too has been received.
5. A method as claimed in claim 1, characterized in that the perceptible signaling is emitted from the small device.
- 20 6. A method as claimed in either of claims 4 or 5, characterized in that the base station receives and analyzes at least part of the signaling.
7. A method as claimed in claim 6, characterized in that the base station only performs an action associated with the communication if the signaling too has been received
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8. A method as claimed in any of the foregoing claims, characterized in that an action that should normally be provoked by the communication is embargoed by the operation of a control at the small device and by a transmission of data to the base station.

9. A method as claimed in any of the foregoing claims, characterized in that an absence of signaling and/or altered signaling at the small device indicates an operating fault in the transmission process.
- 5 10. A method as claimed in any of the foregoing claims, characterized in that an alarm is triggered by the operation of a control at the small device and by a transmission of data.
- 10 11. A method as claimed in any of the foregoing claims, characterized in that an additional mode of operation allows communication to be established between the base station and small device but only the signaling to be performed, and normal operation (authorization of access, identification, payments, logging and the like) to be embargoed at least until a particular deliberate action (e.g. operation of a special control, input of a code, mechanical unlocking, and the like) has been performed and/or until an interval of time has
- 15 expired.
12. A method as claimed in any of the foregoing claims, characterized in that the device is prevented from operating, at least temporarily, by controls and/or by a cover at least parts of which are impenetrable.
- 20 13. A method as claimed in any of the foregoing claims, characterized in that the signaling occurs when an access zone is entered and/or there is a presence in the access zone and takes place temporally before an identification process.
- 25 14. An arrangement for increasing the security of transponder systems employing wireless transmission between at least one base station (8) and at least one small device (6) that a person can carry with him or her, a communication that establishes that the small device (6) is spatially close taking place between the basis station (8) and the small device (6), characterized in that at least one emitter (3) for signaling perceptible by human beings is
- 30 provided in the base station (8), which emitter (3) is able to be activated by the communication.
15. An arrangement for increasing the security of transponder systems employing wireless transmission between at least one base station (8) and at least one small device (6)

that a person can carry with him or her, a communication that establishes that the small device (6) is spatially close taking place between the basis station (8) and the small device (6), characterized in that at least one emitter (3) for signaling perceptible by human beings is provided in the small device (6), which emitter (3) is able to be activated by the
5 communication.

16. An arrangement as claimed in claim 15, characterized in that a control for deactivating the wireless transmission at least temporarily is present on the small device.

10 17. An arrangement as claimed in claim 15, characterized in that a control for triggering protective measures in the context of a technical system that includes the base station is present on the small device.

18. An arrangement as claimed in claim 15, characterized in that a control for
15 triggering an alarm is present on the small device.

19. An arrangement as claimed in claim 14, characterized in that a receiver for the signaling emitted by the base station and an analyzing means are present in the small device.

20 20. An arrangement as claimed in claim 15, characterized in that a receiver (9) for the signaling emitted by the small device (6) and a matching analyzing means are present at the base station (8).

21. An arrangement for increasing the security of transponder systems employing
25 wireless transmission between at least one base station (8) and at least one small device (6) that a person can carry with him or her, a communication that establishes that the small device (6) is spatially close taking place between the basis station (8) and the small device (6), characterized in that a control for deactivating the wireless transmission, at least at times, is present on the small device (6).